

Supplementary Table 6: Group Differences for Intra- and Inter-hemispheric iFC of the HOA
Parcellation Units

HOA units iFC	Intra		Inter			
			<i>Homotopic</i>		<i>Heterotopic</i>	
ASD vs.TC	<i>Hypo</i>	<i>Hyper</i>	<i>Hypo</i>	<i>Hyper</i>	<i>Hypo</i>	<i>Hyper</i>
Total	398	21	18	0	535	21
n (%)	13%	1%	32%	0%	17%	1%

As described in Supplementary Information, based on the structural Harvard Oxford Atlas (HOA)³⁴ intrinsic functional connections were divided in intrahemispheric (total n=3080) and interhemispheric (n=56 for homotopic and 3080 for heterotopic). Here, we summarize the absolute number and percentage of node-to-node intrinsic functional connectivity (iFC) showing significant differences between individuals with Autism Spectrum Disorders (ASD) and Typical Controls (TC). Correction for multiple comparisons were based on False Discovery Rate, $p < 0.05$. Intra=intrahemispheric; linter= interhemispheric; Hypo=ASD<TC; Hyper=ASD>TC.